Special Issue

Fighting Multidrug Resistance with Natural Antimicrobials

Message from the Guest Editor

The rapid spread and evolution of bacterial antimicrobial resistance is a major concern regarding the efficacy of antimicrobial therapy, leading to the need to find new antibacterial and resistant modifying agents. Furthermore, the application of natural compounds can decrease or block certain bacterial virulence factors e.g., the inhibition of over-expressed efflux pumps and biofilm production can contribute to successful treatment. A new perspective could be the combination of conventional antibiotics with natural compounds as adjuvants that can overcome resistance and enhance the activity of the antibiotics. This Special Issue of Microorganisms invites both reviews and original articles that consider natural antimicrobials as potential drug candidates against multidrug resistant microorganisms. Planned topics include: the discovery of natural antibacterial compounds, application of natural compounds in the antimicrobial therapy, natural efflux pump inhibitors, natural anti-biofilm agents, and the combination of conventional antibiotics and natural compounds. You are also welcome to propose a unique topic.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2019)



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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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